

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/605,181	09/12/2003	Mark G. Smith	81079903/202-1623	2180
28395	7590 01/10/2006		EXAMINER	
BROOKS KUSHMAN P.C./FGTL			TANNER, HARRY B	
	1000 TOWN CENTER 22ND FLOOR		ART UNIT	PAPER NUMBER
	SOUTHFIELD, MI 48075-1238			

DATE MAILED: 01/10/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

		<i>_</i>						
	Application No.	Applicant(s)						
Office Action Summary	10/605,181	SMITH, MARK G.						
Office Action Summary	Examiner	Art Unit						
The MAILING DATE of this account of the	Harry B. Tanner	3744						
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N nety filed the mailing date of this communication. D (35 U.S.C. § 133).						
Status								
1) Responsive to communication(s) filed on 20 Oc	<u>ctober 2005</u> .							
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.							
) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims								
4)⊠ Claim(s) <u>1-24</u> is/are pending in the application.								
4a) Of the above claim(s) <u>13-20</u> is/are withdrawn from consideration.								
5)⊠ Claim(s) <u>21-24</u> is/are allowed. 6)⊠ Claim(s) <u>1-9</u> is/are rejected. 7)⊠ Claim(s) <u>10-12</u> is/are objected to.								
						8) Claim(s) are subject to restriction and/or	r election requirement.	
						Application Papers		
9) The specification is objected to by the Examine	r.							
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) ☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.						
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).								
a) ☐ All b) ☐ Some * c) ☐ None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
Copies of the certified copies of the prior	ity documents have been receive	ed in this National Stage						
application from the International Bureau								
* See the attached detailed Office action for a list	of the certified copies not receive	ed.						
Attachment(c)								
Attachment(s) 1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO 413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal P 6) Other:,	atent Application (PTO-152)						

U.S. Patent and Trademark Office PTOL-326 (Rev. 7-05) Application/Control Number: 10/605,181

Art Unit: 3744

Applicant's election without traverse of the invention of Group I in the reply filed on 10/20/05 is acknowledged.

Claims 13-20 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 10/20/05.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-3 and 5-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda et al in view of Shaffer, Jr. Ueda discloses the invention substantially as claimed. Ueda discloses a cooling system for a vehicle having first 17 and second 42 spaces cooled by first 20 and second 28 evaporators in which valve 24 stops flow to the second evaporator in response to a sensor 30 indicative of the temperature of air exiting the second evaporator. Shaffer teaches control of the compressor 12 and evaporator flow control valves 28 of two evaporators in response to the cooling needs of the two cooled spaces such that the valve of each evaporator is closed when the space does not need cooling and the compressor is stopped when neither space needs cooling. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the system of Ueda such that it included the use control of the compressor and evaporator flow control valves of the two evaporators in response to the cooling needs of the two cooled spaces such that the valve of each evaporator is

closed when the space does not need cooling and the compressor is stopped when neither space needs cooling in view of the teachings of Shaffer.

Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda et al in view of Shaffer, Jr as applied to claim 1 above, and further in view of Kimishima et al. Kimishima teaches the use of a reservoir 26 at the compressor 24 inlet in order to store refrigerant and separate liquid and vapor. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the system of Ueda such that it included the use of a reservoir at the compressor inlet in order to store refrigerant and separate liquid and vapor in view of the teachings of Kimishima.

Claims 8-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ueda et al in view of Shaffer, Jr as applied to claim 7 above, and further in view of Campbell et al. Campbell teaches the use of a pressure sensitive device at the compressor outlet to operate a condenser fan when pressure is above a given amount and to stop the compressor when pressure is above another given amount (see col. 11, lines 19-24). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the system of Ueda such that it included the use of a pressure sensitive device at the compressor outlet to operate a condenser fan when pressure is above a given amount and to stop the compressor when pressure is above another given amount in view of the teachings of Campbell.

Claims 10-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 3744

Claims 21-24 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harry B. Tanner whose telephone number is (571) 272-4813. The examiner can normally be reached 8:30 am to 5:00 pm Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler, can be reached on (571) 272-4834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://portal.uspto.gov/external/portal/pair. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Harry B. Tanner Primary Examiner Art Unit 3744